R E M A R K S

Careful review and examination of the subject application are noted and appreciated.

Applicants thank Examiner Anyikire for the indication of allowable matter in claim 10. Claim 10 has been amended to better determine the scope of allowability.

SUPPORT FOR THE CLAIM AMENDMENTS

Support for the claim amendments may be found in the specification, for example, on page 9 line 16 thru page 11 line 2, page 11 line 13 thru page 12 line 5, page 24 line 14 thru page 26 line 16, page 26 line 17 thru page 27 line 5, page 27 line 17 thru page 28 line 2 and FIGS. 3, 4, 6, 7 as originally filed. Thus, no new matter has been added.

OBJECTION TO THE SPECIFICATION

The objections to the specification have been obviated by appropriate amendment and should be withdrawn.

OBJECTION TO THE CLAIMS

The objection of claim 7 for informalities has been obviated by amendment and should be withdrawn.

CLAIM REJECTIONS UNDER 35 U.S.C. §102

The rejection of claims 1, 11-16 and 18-20 under 35 U.S.C. §102(e) as being anticipated by Auyeung et al. (hereafter Auyeung) '315 has been obviated by amendment and should be withdrawn.

Auyeung concerns motion estimation using multiple search windows (Title).

Claim 1 provides a write control circuit configured to control a copying of the reference samples in the search window from the first memory to a shifter circuit, one column of a plurality of columns of the reference samples at a time. In contrast, Auyeung appears to be silent regarding copying reference samples one column at time from a memory to shifter circuit. Therefore, Auyeung does not appear to disclose or suggest a write control circuit configured to control a copying of the reference samples in the search window from the first memory to a shifter circuit, one column of a plurality of columns of the reference samples at a time, as presently claimed. Claims 11 and 20 provide language similar to claim 1.

Claim 1 further provides a shifter circuit configured to shift the references samples in each of the columns to align the reference samples relative to an edge of a sub-window when the sub-window is at least partially outside of the boundary. In contrast, Auyeung appears to be silent regarding a shifter circuit, a sub-

window and shifting reference samples in a column to align with an edge of the sub-window. Therefore, Auyeung does not appear to disclose or suggest a shifter circuit configured to shift the references samples in each of the columns to align the reference samples relative to an edge of a sub-window when the sub-window is at least partially outside of the boundary, as presently claimed. Claims 11 and 20 provide language similar to claim 1. As such, the claimed invention is fully patentable over the cited reference and the rejection should be withdrawn.

Claim 20 further provides means for generating a plurality of difference values by comparing the current block against only (i) the reference samples in the sub-window and (ii) the pad samples in the sub-window. In contrast, Auyeung appears to be silent regarding a search **only** in a sub-window of a search window. Therefore, Auyeung does not appear to disclose or suggest a means for generating a plurality of difference values by comparing the current block against only (i) the reference samples in the sub-window and (ii) the pad samples in the sub-window, as presently claimed. As such, claim 20 is fully patentable over the cited reference and the rejection should be withdrawn.

CLAIM REJECTIONS UNDER 35 U.S.C. §103

The rejection of claims 2-9 under 35 U.S.C. §103(c) as being unpatentable over Auyeung in view of Bellas et al. (hereafter

Bellas) U.S. Pub. No. 2003/0174252 has been obviated by amendment and should be withdrawn.

The rejection of claim 17 under 35 U.S.C. §103(c) as being unpatentable over Auyeung in view of Linzer et al. (hereafter Linzer) '039 has been obviated by amendment and should be withdrawn.

Aside from a notice of allowance, Applicants' representative respectfully requests that the Office clearly explain how the DMA unit of Bellas, the SRAMs of Bellas and the video compression techniques of Linzer are being applied to the claims as required by 37 C.F.R. §1.104(c)(2). Merely copying large sections of the references into the Office Action does not show the pertinence of the references.

Claims 2-9, 11, 14, 15 and 17 depend from claims 1 and 11, which are now believed to be allowable. As such, the dependent claims are fully patentable over the cited references and the rejections should be withdrawn.

Claims 21-25 depend from claims 1 and 11, which are now believed to be allowable. As such, the new claims are fully patentable over the cited references and should be allowed.

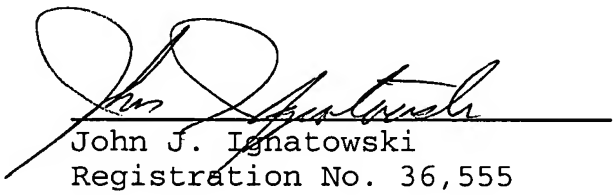
Accordingly, the present application is in condition for allowance. Early and favorable action by the Examiner is respectfully solicited.

The Examiner is respectfully invited to call the Applicants' representative between the hours of 9 a.m. and 5 p.m. ET at 586-498-0670 should it be deemed beneficial to further advance prosecution of the application.

If any additional fees are due, please charge Deposit Account No. 12-2252.

Respectfully submitted,

CHRISTOPHER P. MAIORANA, P.C.



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Dated: May 23, 2007

c/o Henry Groth
LSI Corporation

Docket No.: 1496.00330 / 03-0839